

ABSTRACT

This invention relates to magneto-optical recording media such as magneto-optical disks and cards, manufacturing methods of the medium and a magneto-optical recording and playback device to record and play back data using the magnetic-optical recording media. The magneto-optical recording medium ~~of the present invention~~ has a recording layer and a reflective layer on a substrate, and the recording layer has a layered structure in which at least on spinel ferrite (or rutile-type oxide or hematite) layer and at least one garnet ferrite layer are piled together. ~~It is preferable that the layered structure is formed on tracks where data are recorded.~~ The manufacturing method ~~of the present invention~~ comprises the steps of heat treatment ~~in the range of 500-700°C, preferably 600-630°C,~~ after the formation of the recording layer. In the magneto-optical recording and playback device to record and playback data ~~of the present invention~~, the wavelength of light for recording data is different from that for reading data, which is preferable for a magneto-optical recording medium comprising a garnet ferrite layer.